

Abstract of the Invention

A microelectrical mechanical system (MEMS) optical raster display system includes a microelectrical mechanical system (MEMS) device that supports a reflective surface and tilts it in first and second transverse directions. The reflective surface is positioned to receive modulated light from a light source and to direct reflected light toward an image surface, such as a display screen, in a raster scan pattern. The raster scanning of the light is coordinated with the modulation of the light to form a display image on the display screen. In one implementation, the system includes multiple modulated light sources that each direct modulated light toward the reflective surface. The light sources are positioned so that the reflective surface reflects modulated light from each light source to a separate region of the display screen, thereby forming plural contiguous, generally non-overlapping, raster scan patterns.